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(71) Applicant (for all designated States except US): **AL-PHARMA APS** [DK/DK]; 11 Dalslandsgade, DK-2300 Copenhagen S (DK).

(71) Applicant (for GB only): **COCKBAIN, Julian** [GB/GB]; 42 Southmoor Road, Oxford OX2 6RD (GB).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **UNDHEIM, Kjell** [NO/NO]; c/o Synthesis Technology, Alharma, Harbitzalléen 3, N-0212 Oslo (NO). **GUNNES, Sølvi** [NO/NO]; c/o Synthesis Technology, Alharma, Harbitzalléen 3, N-0212 Oslo (NO).

(74) Agents: **COCKBAIN, Julian** et al.; Frank B. Dehn & Co., 179 Queen Victoria Street, London EC4V 4EL (GB).

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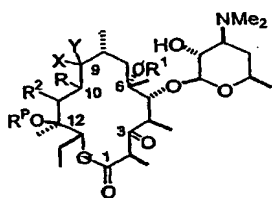
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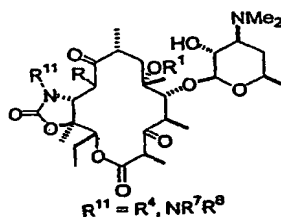
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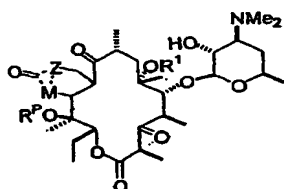
(54) Title: 10-SUBSTITUTED MACROLIDE ANTIBIOTICS



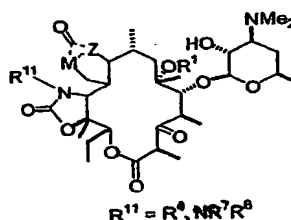
(II)



(III)



(IV)



(V)

(57) Abstract: The application provides antibiotic 10-substituted 10-desmethyl macrolides. In a preferred embodiment the macrolides have an erythromycin basic structure according the formula, wherein the variable substituents have the meaning indicated in the description.

INTERNATIONAL SEARCH REPORT

Inte 1al Application No
PCT/GB 03/05659

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 C07H17/08 A61K31/70 A61P31/04

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 C07H

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, CHEM ABS Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 02/060912 A (LAZAROVA TSVETELINA ;WANG JIANCHAO (US); BINET SOPHIE (US); OR YAT) 8 August 2002 (2002-08-08) claim 1	1-5
X	WO 98/01571 A (CORTES JESUS ;LEADLAY PETER F (GB); PACEY MICHAEL S (GB); STAUNTON) 15 January 1998 (1998-01-15) page 39; claim 1	1-9
X	WO 98/51695 A (ABBOTT LAB) 19 November 1998 (1998-11-19) claim 1; table 1	1-9
Y	FR 2 692 579 A (ROUSSEL UCLAF) 24 December 1993 (1993-12-24) the whole document	1-9
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Further documents are listed in the continuation of box C.



Patent family members are listed in annex.

* Special categories of cited documents:

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
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- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

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- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
- *S* document member of the same patent family

Date of the actual completion of the international search

30 July 2004

Date of mailing of the international search report

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Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer

Bardili, W

INTERNATIONAL SEARCH REPORT

Inte 191 Application No

PCT/GB 03/05659

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	WO 98/25942 A (AUGER JEAN MICHEL ; CHANTOT JEAN FRANCOIS (FR); DENIS ALEXIS (FR); AGO) 18 June 1998 (1998-06-18) the whole document -----	1-9
A	CHU, D. TW: "Recent developments in 14- and 15-membered macrolides" EXP. OPIN. INVEST. DRUGS, vol. 4, no. 2, 1995, pages 65-94, XP002279502 -----	

INTERNATIONAL SEARCH REPORT

national application No.
PCT/GB 03/05659

Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:
2. ☐ Claims Nos.:
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)

This International Searching Authority found multiple inventions in this International application, as follows:

see additional sheet

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☒ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
1-9 (parts), 10
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED/ FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-9 (partially)

Compounds as represented by formula (II), pharmaceutical compositions and their use

2. claims: 1-9 (partially); 10

Compounds as represented by formula (III), pharmaceutical compositions and their use; intermediates according to claim 10

3. claims: 1-9 (partially)

Compounds as represented by formula (IV), pharmaceutical compositions and their use

4. claims: 1-9 (partially)

Compounds as represented by formula (V), pharmaceutical compositions and their use

INTERNATIONAL SEARCH REPORT
information on patent family members

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INTERNATIONAL SEARCH REPORT

Information on patent family members

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